

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 005363-3271
INTERNATIONAL APPLICATION NO. PCT/US05/07651	INTERNATIONAL FILING DATE 10 March 2005 (10.03.2005)	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 107561413
PRIORITY DATE CLAIMED 10 March 2004 (10.03.2004)		
TITLE OF INVENTION SYNERGISTIC EFFECT OF COMPOSITIONS COMPRISING CAROTENOIDS SELECTED FROM LUTEIN, BETA-CAROTENE AND LYCOPENE		
APPLICANT(S) FOR DO/EO/US Kyung-Jin YEUM		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))</p> <p>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). (32 sheets along with 6 sheets of figures)</p> <p>b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
<p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>		

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<p>The following fees have been submitted</p> <table border="1"> <tr> <td>21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....</td> <td>\$300</td> <td>CALCULATIONS</td> <td>PTO USE ONLY</td> </tr> <tr> <td></td> <td>\$ 300.00</td> <td></td> <td></td> </tr> <tr> <td>22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td>\$0</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td>All other situations</td> <td>\$200</td> <td></td> <td></td> </tr> <tr> <td>23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)</td> <td>\$0</td> <td>\$ 500.00</td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td>\$100</td> <td></td> <td></td> </tr> <tr> <td>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....</td> <td>\$400</td> <td></td> <td></td> </tr> <tr> <td>All other situations</td> <td>\$500</td> <td></td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF 21, 22 and 23 =</td> <td>\$ 1,000.00</td> <td></td> </tr> <tr> <td colspan="3"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. </td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> <td></td> </tr> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250.00</td> <td>\$</td> </tr> <tr> <td colspan="4">Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$</td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> <td></td> </tr> <tr> <td>Total claims</td> <td>20 - 20 =</td> <td>0</td> <td>x</td> <td>0.00</td> </tr> <tr> <td>Independent claims</td> <td>8 - 3 =</td> <td>5</td> <td>x 200.00</td> <td>1,000.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+</td> <td></td> </tr> <tr> <td colspan="3"></td> <td>TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 2,000.00</td> </tr> <tr> <td colspan="3"><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/4.</td> <td></td> <td>1,000.00</td> </tr> <tr> <td colspan="3"></td> <td>SUBTOTAL =</td> <td>\$ 1,000.00</td> </tr> <tr> <td colspan="3">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td></td> <td>\$</td> </tr> <tr> <td colspan="3"></td> <td>TOTAL NATIONAL FEE =</td> <td>\$ 1,000.00</td> </tr> <tr> <td colspan="3">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>+</td> <td>\$</td> </tr> <tr> <td colspan="3"></td> <td></td> <td>\$</td> </tr> <tr> <td colspan="3"></td> <td>TOTAL FEES ENCLOSED =</td> <td>\$ 1,000.00</td> </tr> <tr> <td colspan="3"></td> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td colspan="3"></td> <td>Amount to be charged</td> <td>\$</td> </tr> </table>			21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....	\$300	CALCULATIONS	PTO USE ONLY		\$ 300.00			22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....	\$0	\$ 200.00		All other situations	\$200			23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	\$0	\$ 500.00		Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....	\$100			International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....	\$400			All other situations	\$500			TOTAL OF 21, 22 and 23 =		\$ 1,000.00		<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). 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PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021
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b. Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
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c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 141449. A duplicate copy of this sheet is enclosed.

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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Thomas J. Engellenner
NUTTER MCCLENNEN & FISH LLP
World Trade Center West
155 Seaport Boulevard
Boston, Massachusetts 02210-2604
(617) 439-2948
19 December 2005



SIGNATURE

Thomas J. Engellenner
NAME

28,711
REGISTRATION NUMBER

UNITED STATES PATENT OFFICE

Applicant(s): **Kyung-Jin YEUM**
Application No: **Not yet Assigned**
Filed: **Herewith**
Entitled: **SYNERGISTIC EFFECT OF COMPOSITIONS COMPRISING
CAROTENOIDS SELECTED FROM LUTEIN, BETA-CAROTENE
AND LYCOPENE**
Agent's File Reference: **5363-3271**

Certification under 37 CFR 1.10

Attention Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
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Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service using "Express Mail Post Office to Addressee" service, Mailing Label No. **EV 317 185 240 US**, under 37 CFR 1.10 on the date indicated below and addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450:

- (1) Transmittal Letter (3 sheets in duplicate);
- (2) Copy of Application as filed (32 sheets along with 6 sheets of figures);
- (3) Copy of PCT Request (4 sheets);
- (4) Copy of Form PCT/IB/304 (1 sheet);
- (5) Copy of Form PCT/IB/308 (1 sheet);
- (6) Copy of PCT International Published Application (WO 2005/087208)
(without International Search Report attached) (32 sheets along with 6 sheets of figures);
- (7) Copy of Cover sheet for PCT International Published Application (WO 2005/087208)
(with International Search Report attached) (4 sheets);
- (8) Copy of PCT International Search Report along with PCT Written Opinion of the
International Searching Authority (13 sheets);

10/561413
Page two
IAP12 Rec'd PCT/PTO 19 DEC 2005

- (9) Check (\$1000) based on SMALL entity;
- (10) Certificate of Express mailing (2 sheets); and
- (11) Return Postcard.

19 December 2005

Date



Name: Thomas J. Engellenner
Registration No. 28,711